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Claims

1	1.	Circuit arrangement comprising:
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- 2 a power section, which comprises heat-generating components and at least
- 3 one component producing less heat.

Circuit arrangement comprising:

- the component producing less heat being arranged in an internal region of the
- 5 circuit arrangement, and
- 6 the heat-generating components being arranged around the internal region and
- 7 being mounted on at least one metallic body acting as an electrical conductor.
- 8 said body being electrically connected to the heat-generating components,
- 9 wherein
- 10 the body is arranged in an electrically insulating manner in the region of the 11
 - heat-generating components on a heat sink, in order to cool the heat-
- 12 generating components, and wherein
- 13 the heat sink is embodied running around the internal region with the
- 14 components producing less heat.
 - 1 2. Circuit arrangement according to Claim 1, further comprising:
 - 2 a logic section, which is arranged above the internal region,
 - 3 wherein the logic section being electrically connected to the power section via
- 4 bonding connections.
- 3. 1 Circuit arrangement according to Claim 2, further comprising:
- 2 a metallic board, which covers the internal region and is arranged above the
- 3 component producing less heat,
- 4 wherein the board having at least one opening above the internal region and
- 5 the component producing less heat being electrically connected to the board
- via a first wired bond, which is led through the opening, 6
- 7 a carrier, which is arranged in an electrically insulating manner above the
- ጸ internal region and above the board,

- 9 wherein the surface of the carrier facing the board having an indentation in the 10 region of the first wired bond, to accommodate the first wired bond,
- 11 wherein the surface of the carrier facing away from the board being
- 12 essentially flat, and
- 13 wherein the logic section being arranged in an electrically insulating manner
- on the surface of the carrier facing away from the board.
- 4. Circuit arrangement according to Claim 3,
- 2 wherein the carrier being essentially made of aluminum.
- Circuit arrangement according to Claim 1, further comprising:
- 2 a metallic board, which covers the internal region and is arranged above the
- 3 component producing less heat,
- 4 wherein

- 5 the board comprising at least one opening above the internal region.
- 6 the component producing less heat being embodied as a capacitor and being
 - electrically connected to the board via a first wired bond, which is led through
- 8 the opening,
- 9 the heat-generating components being embodied as bare first chips and
- second chips, each containing a transistor, with the first chips being mounted
- on at least one first metallic body and the second chips being mounted on a
- 12 second metallic body,
- 13 the first body being embodied as a bar, which runs along the outer edge of the
- 14 heat sink.
- 15 the second body being embodied as a board, which covers the internal region
- 16 and inner edge of the heat sink,
- 17 the board being arranged in an electrically insulating manner on the second
- 18 body,

- 19 the second body having a first opening above the internal region, which is
- 20 arranged under the opening of the board and through which the first wired
- 21 bond is led.
- 22 the second body having at least one second opening above the internal region,
- 23 the component producing less heat being electrically connected to the second
- 24 body via a second wired bond, which is led through the second opening,
- 25 the first chips being electrically connected to the board via bonding
- 26 connections, and
- 27 the second chips being electrically connected to the first body via bonding
- 28 connections.
- Circuit arrangement according to Claim 2, further comprising:
- 2 a metallic board, which covers the internal region and is arranged above the
- 3 component producing less heat,
- 4 wherein
- 5 the board comprising at least one opening above the internal region,
- 6 the component producing less heat being embodied as a capacitor and being
- 7 electrically connected to the board via a first wired bond, which is led through
- 8 the opening.
- 9 the heat-generating components being embodied as bare first chips and
- 10 second chips, each containing a transistor, with the first chips being mounted
- on at least one first metallic body and the second chips being mounted on a
- 12 second metallic body.
- 13 the first body being embodied as a bar, which runs along the outer edge of the
- 14 heat sink,
- 15 the second body being embodied as a board, which covers the internal region
- 16 and inner edge of the heat sink,
- 17 the board being arranged in an electrically insulating manner on the second

18 body.

- 19 the second body having a first opening above the internal region, which is
- 20 arranged under the opening of the board and through which the first wired
- 21 bond is led.
- 22 the second body having at least one second opening above the internal region,
- 23 the component producing less heat being electrically connected to the second
- 24 body via a second wired bond, which is led through the second opening,
- 25 the first chips being electrically connected to the board via bonding
- 26 connections, and
- 27 the second chips being electrically connected to the first body via bonding
- 28 connections.
- 1 7. Circuit arrangement according to Claim 3, further comprising:
- 2 a metallic board, which covers the internal region and is arranged above the
- 3 component producing less heat,
- 4 wherein
- 5 the board comprising at least one opening above the internal region,
- 6 the component producing less heat being embodied as a capacitor and being
- 7 electrically connected to the board via a first wired bond, which is led through
- 8 the opening.
- 9 the heat-generating components being embodied as bare first chips and
- 10 second chips, each containing a transistor, with the first chips being mounted
- on at least one first metallic body and the second chips being mounted on a
- 12 second metallic body,
- 13 the first body being embodied as a bar, which runs along the outer edge of the
- 14 heat sink,
- 15 the second body being embodied as a board, which covers the internal region
- 16 and inner edge of the heat sink,
- 17 the board being arranged in an electrically insulating manner on the second
- 18 body.

- 19 the second body having a first opening above the internal region, which is
- 20 arranged under the opening of the board and through which the first wired
- 21 bond is led.
- 22 the second body having at least one second opening above the internal region,
- 23 the component producing less heat being electrically connected to the second
- 24 body via a second wired bond, which is led through the second opening.
- 25 the first chips being electrically connected to the board via bonding
- 26 connections, and
- 27 the second chips being electrically connected to the first body via bonding
- 28 connections.
 - 1 8. Circuit arrangement according to Claim 4, further comprising:
- 2 a metallic board, which covers the internal region and is arranged above the 3 component producing less heat,
- 4 wherein
- 5 the board comprising at least one opening above the internal region,
- 6 the component producing less heat being embodied as a capacitor and being
- 7 electrically connected to the board via a first wired bond, which is led through
- 8 the opening.
- 9 the heat-generating components being embodied as bare first chips and
- 10 second chips, each containing a transistor, with the first chips being mounted
- 11 on at least one first metallic body and the second chips being mounted on a
- 12 second metallic body,
- 13 the first body being embodied as a bar, which runs along the outer edge of the
- 14 heat sink.
- 15 the second body being embodied as a board, which covers the internal region
- 16 and inner edge of the heat sink,
- 17 the board being arranged in an electrically insulating manner on the second

18 body.

- the second body having a first opening above the internal region, which is arranged under the opening of the board and through which the first wired bond is led,
 the second body having at least one second opening above the internal region, the component producing less heat being electrically connected to the second body via a second wired bond, which is led through the second opening,
 the first chips being electrically connected to the board via bonding
- connections, and
 the second chips being electrically connected to the first body via bonding
- the second chips being electrically connected to the first body via bonding
 connections.
 - 1 9. Circuit arrangement according to Claim 5,
- wherein the first body, second body and board being essentially made of
 copper.